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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,263	06/19/2002	Patrick Johannes Blom	34434	1713

7590

07/15/2003

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EXAMINER

DICUS, TAMRA

ART UNIT

PAPER NUMBER

1774

10

DATE MAILED: 07/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/069,263	Applicant(s) BLOM ET AL.	
	Examiner Tamra L. Dicus	Art Unit 1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 May 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

The specification objection is withdrawn.

Response to Amendment

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 (amended) – 16, and new claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,851,614 to Buck in view of USPN 5,891,552 to Lu et al., and further in view of JP 11115391 to Sangyo (abstract).

Buck teaches a self-adhesive opaque dry transfer decal (encompasses transfer label and shaped object) comprising a transparent base sheet (14) of a transparent film (20) with a coating layer (22) (boundary layer of claims 3, 7, and 14) that functions to reduce the strength of UV rays penetrating the transparent film and fading of the underlying ink layers. The printed multiple ink layers 24 (image layer) are deposited on the base sheet (14). The opaque layer (26) comprised of white/metallic ink (pigmented layer) is over the image layer and adhesive layer (3) is over the opaque layer (26). See FIG. 2, column 3, lines 55-68, and col. 4, lines 1-10, and 45-68.

Buck does not include an aluminium powder of at least 0.1 wt. %. However, Sangyo teaches a transfer film and states it is known to include aluminum powder (20-30 wt. %) on an ink layer of a transfer film (meeting Applicant's limitations). See Abstract. Therefore, it would

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have been obvious to one of ordinary skill in the art to modify the decal of Buck to include aluminum powder for the purpose of increasing brightness as Sangyo teaches in the abstract.

Regarding new claims 17 and 18, lowering the amounts of aluminum powder to % wt. % or 1.5 wt%, is an obvious modification. It would have been obvious to one of ordinary skill in the art to modify the decal of Buck since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Also Lu teaches a printed plastic film for transfer and teaches adding aluminum pigments to reflect light and aluminum silicates as additives (in about 5 to 70 weight %) used in an opacifying ink layer at col. 4, lines 19-60. It would have been obvious to one of ordinary skill in the art to modify the decal of Buck to include aluminum in a pigmented layer to reflect light, and provide a desired degree of translucency or opacity as taught by Lu at col. 4, lines 40-60.

Regarding claims 5, 10-12, and 16, Buck does not teach adding water based ink in a pigmented layer. However, the phrase "water-based" ink is a process limitation in a product claim. When the ink is dried, as in the claims, all that is left is the pigment. The process does not change the product is a process limitation. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. Patentability of an article depends on the article itself and not the method used to produce it (see MPEP 2113). Furthermore, the invention defined by a product-by-process invention is a product NOT a process. *In re Bridgeford*, 357 F. 2d 679. It is the patentability of the product claimed and NOT of the recited process steps which must be established. *In re Brown*, 459 F. 2d 531.

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Buck does not teach the particle size of the aluminium powder in the opaque pigmented layer. However Lu teaches particle sizes of 1 to 10 microns, meeting the limitations of 5 to 50 microns of claims 4, 8-9, and 15. Hence, it would have been obvious to one of ordinary skill in the art to modify the decal of Buck to include aluminium particles in a size between 5 and 50 microns since Lu teaches suitable particle sizes fall in the range are especially suited for quality transfer media.

Response to Arguments

In response to Applicant's contention that Buck in view of Lu and Sangyo do not teach an "opaque" pigment layer, the Examiner disagrees. Buck teaches this opaque layer, (26), as previously cited. See also col. 4, lines 34-65.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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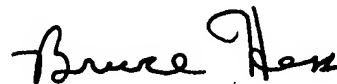
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamra L. Dicus whose telephone number is (703) 305-3809. The examiner can normally be reached on Monday-Friday, 7:00-4:30 p.m., alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on (703) 308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-8329 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Tamra L. Dicus
Examiner
Art Unit 1774

July 9, 2003



BRUCE H. HESS
PRIMARY EXAMINER